ASHLAND.	Page: 1
SAFETY DATA SHEET	Revision Date: 05/20/2015
	Print Date: 7/8/2016
	SDS Number: R0717396
Optiphen™ BSB-W preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 830381	Version: 1.0

29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name : Optiphen™ BSB-W

preservative

™ Trademark, Ashland or its subsidiaries, registered in

various countries

Recommended use of the chemical and restrictions on use

Use of the Substance/Mixture : Preservative

Details of the supplier of the safety data	Emergency telephone number
sheet	1-800-ASHLAND (1-800-274-5263)
Ashland	
P.O. Box 2219	Regulatory Information Number
Columbus, OH 43216	1-800-325-3751
United States of America	
	Product Information
	614-790-3333
EHS Customer Requests@ashland.com	

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Eye irritation : Category 2A

GHS Label element

Hazard pictograms :



Signal Word : Warning

Hazard Statements : Causes serious eye irritation.

Precautionary Statements : Prevention:

Wash skin thoroughly after handling. Wear eye protection/ face protection.

Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

If eye irritation persists: Get medical advice/ attention.

ASHLAND	Page: 2
SAFETY DATA SHEET	Revision Date: 05/20/2015
	Print Date: 7/8/2016
	SDS Number: R0717396
Optiphen™ BSB-W preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 830381	Version: 1.0

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical Name	CAS-No.	Classification	Concentration (%)
BENZYL ALCOHOL	100-51-6	Acute Tox. 4; H302	40.00
		Eye Irrit. 2A; H319	
SODIUM BENZOATE	532-32-1	Eye Irrit. 2A; H319	17.70
POTASSIUM SORBATE	24634-61-5		6.70
		Eye Irrit. 2A; H319	

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : If breathed in, move person into fresh air.

If unconscious place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : First aid is not normally required. However, it is

recommended that exposed areas be cleaned by washing

with soap and water.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Remove contact lenses. Protect unharmed eye.

If swallowed : IF SWALLOWED: Call a POISON CENTER or doctor/

physician if you feel unwell.

Do not give milk or alcoholic beverages.

ASHLAND	Page: 3
SAFETY DATA SHEET	Revision Date: 05/20/2015
	Print Date: 7/8/2016
	SDS Number: R0717396
Optiphen™ BSB-W preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 830381	Version: 1.0

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through

the skin may include:

stomach or intestinal upset (nausea, vomiting, diarrhea)

irritation (nose, throat, airways)

Convulsions respiratory failure

Causes serious eye irritation.

Notes to physician : No hazards which require special first aid measures.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Water spray Foam

Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during

firefighting

: If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air

and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the

point of release.

Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: carbon dioxide and carbon monoxide

Hydrocarbons toxic fumes Sodium oxides

Specific extinguishing

methods

.

Product is compatible with standard fire-fighting agents.

Further information : Standard procedure for chemical fires.

Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus.

ASHLAND	Page:
SAFETY DATA SHEET	Revision Date: 05/20/201
	Print Date: 7/8/201
	SDS Number: R071739
Optiphen™ BSB-W preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 830381	Version: 1.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

: Persons not wearing protective equipment should be excluded

from area of spill until clean-up has been completed.

Environmental precautions : Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up

: Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

Other information : Comply with all applicable federal, state, and local regulations.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Do not breathe vapours/dust.

Do not smoke.

Container hazardous when empty. Avoid contact with skin and eyes.

Smoking, eating and drinking should be prohibited in the

application area.

For personal protection see section 8.

Dispose of rinse water in accordance with local and national

regulations.

Conditions for safe storage : Kee

: Keep container tightly closed in a dry and well-ventilated

place.

Electrical installations / working materials must comply with

the technological safety standards.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
BENZYL ALCOHOL	100-51-6	TWA	10 ppm 44.20 mg/m3	WEEL

Engineering measures

: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

ASHLAND	Page: 5
SAFETY DATA SHEET	Revision Date: 05/20/2015
	Print Date: 7/8/2016
	SDS Number: R0717396
Optiphen™ BSB-W preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 830381	Version: 1.0

Personal protective equipment

Hand protection

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Wear chemical splash goggles when there is the potential for

exposure of the eyes to liquid, vapor or mist.

Skin and body protection : Wear as appropriate:

impervious clothing

Safety shoes

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Wear resistant gloves (consult your safety equipment

supplier).

Hygiene measures : Wash hands before breaks and at the end of workday.

When using do not eat or drink. When using do not smoke.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Physical state : liquid

Colour : yellow, brown

Odour : noticeable

Odour Threshold : No data available

pH : 9

Melting point/freezing point : No data available

Boiling point/boiling range : No data available

Flash point : 212 °F / 100 °C

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : No data available

ASHLAND	Page: 6
SAFETY DATA SHEET	Revision Date: 05/20/2015
	Print Date: 7/8/2016
	SDS Number: R0717396
Optiphen™ BSB-W preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 830381	Version: 1.0

Relative vapour density : No data available

Relative density : No data available

Density : 1.09 - 1.13 g/cm3 (20 °C)

Solubility(ies)

Water solubility : 20 g/l (20 °C)

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

Thermal decomposition : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Oxidizing properties : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous

reactions

: Product will not undergo hazardous polymerization.

Conditions to avoid : Avoid heat, open flame, and prolonged storage at elevated

temperatures.
Exposure to air.
Exposure to moisture
Exposure to light.

Incompatible materials : Acids

aluminum Iron iron salts

Strong oxidizing agents

Zinc

Hazardous decomposition

products

carbon dioxide and carbon monoxide

Hydrocarbons

ASHLAND	Page: 7
SAFETY DATA SHEET	Revision Date: 05/20/2015
	Print Date: 7/8/2016
	SDS Number: R0717396
Optiphen™ BSB-W preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 830381	Version: 1.0

Sodium oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of : Inhalation

exposure

Skin contact Eye Contact Ingestion

Acute toxicity

Not classified based on available information.

Components:

BENZYL ALCOHOL:

Acute oral toxicity : LD 50 (Rat, male): 1,620 mg/kg

Acute inhalation toxicity : LC 50 (Rat): > 4.178 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: Not classified as acutely toxic by inhalation

under GHS.

Acute dermal toxicity : LD 50 (Rabbit): 2,000 mg/kg

Assessment: Not classified as acutely toxic by dermal

absorption under GHS.

SODIUM BENZOATE:

Acute oral toxicity : LD 50 (Rat, male and female): 3,450 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 12.2 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Remarks: Information given is based on data obtained from

similar substances.

POTASSIUM SORBATE:

Acute oral toxicity : LD 50 (Rat): 4,340 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Product:

Remarks: May cause skin irritation in susceptible persons.

Components:

BENZYL ALCOHOL:

Species: Rabbit

Method: OECD Test Guideline 404 Result: Slightly irritating to skin

SODIUM BENZOATE:

Result: Mildly irritating to skin

ASHLAND	Page: 8
SAFETY DATA SHEET	Revision Date: 05/20/2015
	Print Date: 7/8/2016
	SDS Number: R0717396
Optiphen™ BSB-W preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 830381	Version: 1.0

POTASSIUM SORBATE:

Species: Rabbit

Method: OECD Test Guideline 404

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin., Causes

serious eye irritation.

Components:

BENZYL ALCOHOL: Result: Irritating to eyes

SODIUM BENZOATE:

Species: Rabbit

Result: Irritating to eyes

Method: OECD Test Guideline 405

POTASSIUM SORBATE:

Species: Rabbit

Result: Irritating to eyes

Method: OECD Test Guideline 405

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Components:

BENZYL ALCOHOL:

Assessment: Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

Not classified based on available information.

Components:

BENZYL ALCOHOL:

Genotoxicity in vitro : Remarks: In vitro tests did not show mutagenic effects

Genotoxicity in vivo : Test Type: Micronucleus test

Test species: Mouse

Method: OECD Test Guideline 474

Result: negative

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

ASHLAND	Page: 9
SAFETY DATA SHEET	Revision Date: 05/20/2015
	Print Date: 7/8/2016
	SDS Number: R0717396
Optiphen™ BSB-W preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 830381	Version: 1.0

Further information

Product:

Remarks: No data available

Carcinogenicity:

IARC No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHA No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

BENZYL ALCOHOL:

Toxicity to fish : LC 50 (Fathead minnow (Pimephales promelas)): 460 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC 50 (Daphnia magna (Water flea)): 230 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae : (Pseudokirchneriella subcapitata (green algae)): 770 mg/l

End point: EC 50 Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEC (Water flea (Daphnia magna)): 51 mg/l

Exposure time: 21 d

End point: Reproduction Test Method: OECD Test Guideline 211

SODIUM BENZOATE:

Toxicity to fish : LC 50 (Fathead minnow (Pimephales promelas)): > 100 mg/l

Exposure time: 96 h Test Type: static test Method: Static Remarks: Mortality

ASHLAND	Page: 10
SAFETY DATA SHEET	Revision Date: 05/20/2015
	Print Date: 7/8/2016
	SDS Number: R0717396
Optiphen™ BSB-W preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 830381	Version: 1.0

aquatic invertebrates

Toxicity to daphnia and other : LC 50 (Water flea (Daphnia magna)): > 100 mg/l

Exposure time: 96 h Test Type: static test Method: Static Remarks: Mortality

Persistence and degradability

Components:

BENZYL ALCOHOL:

Biodegradability : Inoculum: activated sludge

Result: Readily biodegradable

Biodegradation: 92 % Exposure time: 14 d

SODIUM BENZOATE:

: Result: Readily biodegradable Biodegradability

> Biodegradation: 88 % Exposure time: 28 d

Method: OECD Test Guideline 301

Bioaccumulative potential

Components:

BENZYL ALCOHOL:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-

octanol/water

: log Pow: 1.10

Mobility in soil Components: No data available

Other adverse effects

No data available

Product:

Additional ecological

information

: No data available

Components:

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

General advice : Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company.

ASHLAND	Page: 11
SAFETY DATA SHEET	Revision Date: 05/20/2015
	Print Date: 7/8/2016
	SDS Number: R0717396
Optiphen™ BSB-W preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 830381	Version: 1.0

Dispose of in accordance with all applicable local, state and

federal regulations.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product.

Empty containers should be taken to an approved waste

handling site for recycling or disposal. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International transport regulations

REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD	SUBSIDIARY	PACKING	MARINE
		CLASS	HAZARDS	GROUP	POLLUTANT /
					LTD. QTY.

U.S. DOT - ROAD

Not dangerous goods

CFR_RAIL_C

Not dangerous goods	

U.S. DOT - INLAND WATERWAYS

Not dangerous goods

TDG_ROAD_C

Not dangerous goods	

TDG_RAIL_C

Not dangerous goods	

TDG INWT C

Not dangerous goods	

INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods	

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

Not dangerous goods	

ASHLAND	Page: 12
SAFETY DATA SHEET	Revision Date: 05/20/2015
	Print Date: 7/8/2016
	SDS Number: R0717396
Optiphen™ BSB-W preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 830381	Version: 1.0

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods	

MX DG

Not dangerous goods

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant	no

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

SECTION 15. REGULATORY INFORMATION

SARA 311/312 Hazards : Acute Health Hazard

SARA 313

: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) Component(s)SARA 313 reporting levels established by SARA Title III, Section 313.

Pennsylvania Right To Know

·	BENZYL ALCOHOL	100-51-6	30.00 - 50.00 %
	WATER	7732-18-5	30.00 - 50.00 %
	SODIUM BENZOATE	532-32-1	10.00 - 20.00 %
	POTASSIUM SORBATE	24634-61-5	5.00 - 10.00 %
New Jersey Right To Know BENZYL ALCOHOL		100-51-6	30.00 - 50.00 %
	WATER	7732-18-5	30.00 - 50.00 %
	SODIUM BENZOATE	532-32-1	10.00 - 20.00 %

California Prop 65 This product does not contain any chemicals known to State

of California to cause cancer, birth defects, or any other

24634-61-5

5.00 - 10.00 %

reproductive harm.

The components of this product are reported in the following inventories:

: On TSCA Inventory **TSCA**

POTASSIUM SORBATE

ASHLAND	Page: 13
SAFETY DATA SHEET	Revision Date: 05/20/2015
	Print Date: 7/8/2016
	SDS Number: R0717396
Optiphen™ BSB-W preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 830381	Version: 1.0

DSL : All components of this product are on the Canadian DSL.

AUSTR : On the inventory, or in compliance with the inventory

ENCS : On the inventory, or in compliance with the inventory

KECL : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

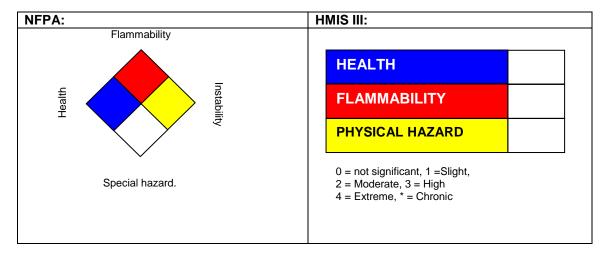
Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

SECTION 16. OTHER INFORMATION

Further information

Revision Date: 05/20/2015



Full text of H-Statements referred to under sections 2 and 3.

H302 Harmful if swallowed.H319 Causes serious eye irritation.

Sources of key data used to compile the Safety Data Sheet
Ashland internal data including own and sponsored test reports
The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

ASHLAND	Page: 14
SAFETY DATA SHEET	Revision Date: 05/20/2015
	Print Date: 7/8/2016
	SDS Number: R0717396
Optiphen™ BSB-W preservative ™ Trademark, Ashland or its subsidiaries, registered in various countries 830381	Version: 1.0

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet:

ACGIH: American Conference of Industrial Hygienists

BEI : Biological Exposure Index

CAS: Chemical Abstracts Service (Division of the American Chemical Society).

CMR: Carcinogenic, Mutagenic or Toxic for Reproduction

FG: Food grade

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement : Hazard Statement

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization

ICAO-TI (ICAO): Technical Instructions by the "International Civil Aviation Organization"

IMDG: International Maritime Code for Dangerous Goods

ISO: International Organization for Standardization

logPow: octanol-water partition coefficient

LCxx: Lethal Concentration, for xx percent of test population

LDxx: Lethal Dose, for xx percent of test population. ICxx: Inhibitory Concentration for xx of a substance

Ecxx : Effective Concentration of xx N.O.S.: Not Otherwise Specified

OECD: Organization for Economic Co-operation and Development

OEL : Occupational Exposure Limit
P-Statement : Precautionary Statement
PBT : Persistent , Bioaccumulative and Toxic

PPE: Personal Protective Equipment STEL: Short-term exposure limit STOT: Specific Target Organ Toxicity

TLV: Threshold Limit Value TWA: Time-weighted average

vPvB : Very Persistent and Very Bioaccumulative

WEL: Workplace Exposure Level

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

DOT : Department of Transportation

FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act HMIRC: Hazardous Materials Information Review Commission

HMIS: Hazardous Materials Identification System NFPA: National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health OSHA: Occupational Safety and Health Administration

PMRA: Health Canada Pest Management Regulatory Agency

RTK: Right to Know

WHMIS: Workplace Hazardous Materials Information System